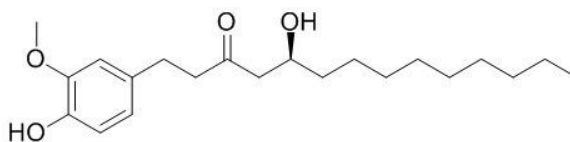


10-Gingerol Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: 10-Gingerol**Catalog No.:** CFN99132**Cas No.:** 23513-15-7**Purity:** > 98%**M.F:** C₂₁H₃₄O₄**M.W:** 350.49**Physical Description:** Powder**Synonyms:** (5S)-5-hydroxy-1-(4-hydroxy-3-methoxyphenyl)-3-tetradecanone.

[Intended Use]

1. Reference standards;
2. Pharmacological research;
3. Food and cosmetic research;
4. Synthetic precursor compounds;
5. Intermediates & Fine Chemicals;
6. Ingredient in supplements, beverages;
7. Aromatics;
8. Others.

[Source]

The rhizomes of *Zingiber officinale* Roscoe.

[Biological Activity or Inhibitors]

10-Gingerol, fresh ginger extract, inhibits the production of nitric oxide, IL-1 β , IL-6 and TNF- α as well as their mRNA levels in LPS-activated BV2 microglia, exhibits a significant anti-neuroinflammatory capacity.^[1]

10-Gingerol improves cisplatin-induced anorexia by inhibiting acylated ghrelin degradation.^[2]

10-Gingerol inhibits proliferation and invasion of MDA-MB-231 breast cancer cells through suppression of Akt and p38MAPK activity, suggests that it could be a potential therapeutic agent for the prevention and treatment of breast cancer.^[3]

10-Gingerol has ameliorative effect on drug induced hepatotoxicity in albino rats.^[4]

[Solvent]

Ethyl ether, Chloroform, Dichloromethane, DMSO, Ethyl Acetate, Acetone, etc.

[HPLC Method]^[5]

Mobile phase: Acetonitrile- H₂O, gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 200 nm.

[Storage]

2-8°C, Protected from air and light, refrigerate or freeze.

[References]

[1] Ho S C, Chang K S, Lin C C. *Food Chem.*, 2013, 141(3):3183-91.

[2] Sadakane C, Muto S, Nakagawa K, *et al. Biochem. Bioph. Res. Co.*, 2011, 412(3): 506-11.

[3] Joo J H, Hong S S, Cho Y R, *et al. Oncol. Rep.*, 2016, 35(2):779-84.

[4] Saleh I, Alqasoumi. *J. Med. Plants Res.*, 2012, 6(9): 1548-55.

[5] Lee S, Khoo C, Halstead C W, *et al. J. Aoac. Int.*, 2007, 90(5):1219-26.

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